## **WEST Search History**

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	L30	20010004108	2		
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	L22	L21 and 18	2		
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	L18	L8 same liquid crystal\$	111		
	L13	20040173775	. 2		
	L12	L11 and 18	2		
	L11	cgu-?-F or cczu-?-F	201		
	L10	L9 and 18	3		
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	L8	(medium or composit\$ or mixture\$) same (pitch with nm)	1240		
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The helical twisting power (HTP) of a chiral compound which induces a helically twisted superstructure in a liquid-crystalline mixture is given by the equation HTP =  $(p \cdot c)^{-1}$  [ $\mu m^{-1}$ ]. In this equation, p denotes the helical pitch of the helically twisted phase in  $\mu m$ , and c denotes the concentration of the chiral compound (a value of 0.01 for c corresponds, for example, to a concentration of 1% by weight). Unless indicated otherwise, HTP values above and below relate to a temperature of 20°C and the commercially available neutral nematic TN host mixture MLC-6260 (Merck KGaA, Darmstadt).

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The physical parameters were determined experimentally in accordance with "Licristal, Physical Properties Of Liquid Crystals, Description of the measurement methods", Ed. W. Becker, Merck KGaA, Darmstadt, revised edition, 1998.

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## Example 1

A cholesteric mixture C1 comprises 97.9% of a nematic component N1 consisting of

20

20					
	CCP-2OCF3	3.0	%	cl.p.	80.5
	CCP-3OCF3	3.0	%	Δn	0.1032
	CCP-2F.F.F	10.0	%	n <sub>e</sub>	1.5906
	CCP-3F.F.F	10.0	%	Δε	+12.4
25	CCP-5F.F.F	4.0	%	γι	176
	BCH-2F.F	7.0	%	•	
	BCH-3F.F	7.0	%		
	BCH-3F.F.F	13.0	%		
	CGU-2-F	7.0	%		
30	CGU-3-F	7.0	%		
	CCZU-2-F	3.0	%		
	CCZU-3-F	15.0	%		
	CCZU-5-F	3.0	%	•	
	CCGU-3-F	8.0	%		•

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and 2.1% of a chiral compound of the following formula:

025 MM